Sanitized Copy Approved for Release 2011/09/19 : CIA-RDP78-03424A002000060019-5 25X1 TEST REPORT MILITARY RECORDER 25X1 Model MR-1 26 August 1959 Crosstalk l. Minimum of 40 db Specification: Due to the noise level of the system, evaluation Test: of the crosstalk figure was not obtainable on playback. Record amp crosstalk = more than -70 db. Frequency Response 2. ± 6 db $250 \sim$ to 60 Kc Specification: Low -5 $1000 \sim = 0$ CH 1 Test: High + 1Low -4 $1000 \sim = 0$ CH 2 High +1.5Low -4.5 CH 3 $1000 \sim = 0$ High +1.3Bias Frequency 3. Specification: 250 Kc Test: 253 Kc Wow & Flutter 4. .5% Peak to Peak Specification: .5% Peak to Peak Test:

Specification: 5 amps Run

Power Drain

5.

25X1

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5. Power Drain (contd.)

Test:

Rewind

9 amps

Amplifiers

.8 amps

Start

Forward Play 5 amps

Forward Record

5.3 amps

6. Signal to Noise

Specification:

None

Test:

Unit Stopped

Noise CH 1 .25 volts peak to peak

CH 2 .13 volts peak to peak

CH3 .5 volts peak to peak

Noise

rms CH 1 -42 db

CH 2 -43 db

CH 3 -37 db

Unit Running

Noise

rms CH 1 -34 db

CH 2 -37 db

CH 3 -34 db



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TEST REPORT

22 Dec 1959

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ENVIRONMENTAL CONDITIONS

Model MR-1

1 HEAT TESTS

1.1 Test on Circuit Cards Only

60 cycle frequency sub-system. AO-49 (3600 cps oscillator) connected to FD-1 (frequency divider) for 60 cps output.

Temperature	Gain	Remarks
$70^{\rm O}~{ m F}$	0 db	Ambient reference setting
$120^{\rm O}$ F	-1 db	Rising temperature - heat chamber
$140^{\rm O}$ F	-1,5 db	Rising temperature - heat chamber
$150^{\rm O}$ F	-2 db	Rising temperature - heat chamber
150 ^O F	-3 db	Stabilized temperature 15 mins, - heat chamber

1.2 Test on Entire Unit

Removed from case to allow faster stabilization at temperatures.

Temperature	Operation	Remarks
120° F 125° F 125° F	Normal Normal Normal	Drive motor comes to sync in normal time Drive motor comes to sync in normal time Runs sync speed through 1800 ft. reel of tape
125^{O} F	Normal	Stabilized 15 mins.: then repeated 1800 ft. run

2 COLD TEST

Entire unit in case (to prevent frost condensation on components).

	Starter		Drive	Motor	
Temperature	Motor	Solenoids	Runs	Sync	Remarks
-40° F	ОК	ОК	No	No	
$-20^{\rm O}~{ m F}$	OK	OK	No	No ·	
-0° F	OK	OK	No	No	
+20 ^O F	OK	OK	No	No	
$+30^{\mathrm{O}}$ F	OK	OK	No	No	
+32 ^O F	OK	OK	Yes	No	Would not quite pull in
+40° F	OK	OK	Yes	Yes	Normal operation

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